FIELD EMISSION DISPLAY AND METHODS OF FORMING A FIELD EMISSION DISPLAY

ABSTRACT OF THE DISCLOSURE

A field emission device and method of forming a field emission device are provided in accordance with the present invention. The field emission device is comprised of a substrate (12) having a deformation temperature that is less than about six hundred and fifty degrees Celsius and a nano-supported catalyst (22) formed on the substrate (12) that has active catalytic particles that are less than about five hundred nanometers. The field emission device is also comprised of a nanotube (24) that is catalytically formed in situ on the nano-supported catalyst (22), which has a diameter that is less than about twenty nanometers.